

# Statewide Data Program Needs Assessment

## Land and Water Use

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### Program Description

The CIMIS program collects climate data. It has more than just ETo, they also have solar radiation, wind speed and wind direction. They operate a system of sites throughout California. There is some cost sharing with the Division of Flood Maintenance and the Division of O&M. The data is transmitted by GOES to Bryte Lab, and then to the Resources Building.

There is no GIS interface. There is an issue with the wait for customers to get the data. The wait can be as long as a day or two. This is unacceptable.

The program needs people to manage the database and well as keep all the sites going.

The program has a long wish list of what it would like.

Jean would like zonal attributes for CIMIS.

Bekele needs people to maintain the stations as well as maintain the database. He would also like a better web interface, a project he calls Spatial CIMIS. To do this, the program will have to contract out.

Bekele needs lots and lots of crop coefficient data; all the crop coefficients in all the regions.

North Central Region Office has 40 sites and 1 person

South Central Regional Office has 50 sites and 1 person

Southern Region Office has 68 sites and 2 people

Northern Region Office has eight sites.

There are a total of 166 sites, and about 5 people in the regional offices. There is no overlap or duplication of sites.

CIMIS is important to other agencies. DWR only maintains 42 of the 170 sites. The other sites are monitored by cooperating agencies.

Much of this data could be used to help assess the impacts of climate change.

Oregon State University (Go Beavers!) has spatial rainfall, temperature, radiation and vapor pressure data. (Check that.) Morteza has developed SimETAW to estimate daily

evapotranspiration of applied water on a daily basis. The California Water Plan has been using this for the DAU by County. Morteza would like to link SimETAW to Spatial CIMIS. To do this, DWR and the public would have to have access to lots and lots of data.

The Land Use programs are data developers. They collect data at a basic level. There is not a lot of information from other programs. They use Landsat imagery, NAIP imagery, County Agricultural Commissioner's Reports. These are not necessarily tied to the California Water Plan crop water use calculations.

The land use information is used for future scenarios, future cropping patterns and future land use estimates. The program collects cropping information and irrigation method.

South Central Regional Office does not collect water source information.

It is sometimes hard to do the surveys late in the season, after the crops have been harvested and plowed under.

The information is used to assess water transfers, cropping patterns and monitors impacts from droughts. The Bay Delta Office uses cropping information for consumed water demand. Jim Rich uses the dairy information to estimate dairy water use.

The State Water Resources Control Board Delta hearings used beans to set the standard for salinity impacts. Not all crops respond to salinity in the same way, and there are long-term changes in the cropping patterns.

Could remote sensing help fill in the gaps? It might be able to help when we could not send people out in the field.

Rich Cooke left North Central Region Office and was not replaced.

Simon would like additional information about water use and water use efficiency. More and more the program is being asked for this information.

The Land Use program has old photographs and old surveys. I think most of the old photographs are stored at the regional offices. I am not sure where the old land use surveys are.

There is a large issue of maintaining the quality, and the consistency of the data. The issue covers regional offices and annual surveys.

**What data does your program need to be successful?**

**Do you have the data your program needs?**

**Is data managed in a way that meets your program needs?**

**Do you have unmet needs**

**How are you accountable as a program manager?**

### **Apportioning Costs**

No discussion of this item.

### **Other Issues**